Index of Issues: January, pp. 1–120; February, pp. 121–260; March, pp. 261–378; April, pp. 379–538; April Supplement, pp. S1–S30; May, p. 539–672; June, pp. 673–796.

INDEX OF SUBJECTS

A

Abortion

biochemical discrimination of pathologic pregnancy from early, normal intrauterine gestation in symptomatic patients, 386

pathologic examination of fetal specimens from dilation and evacuation procedures, 415

ploidy analysis of products of conception by image and flow cytometry with cytogenetic correlation, 409

Acanthoma, pilar sheath, 508

Accuracy

accuracy and reliability of frozen section diagnosis of nonpalpable breast lesions, 199

application of accuracy reference material as adjunct to make patient analyte measurement traceable to definitive method values, 515 of fine-needle aspiration cytology in tertiary hospital practice, 512 precision and accuracy of monocyte counting, 167

Acquired immunodeficiency syndrome

detection of HIV and Epstein-Barr virus in AIDS-related lymphomas, 518

lymphomas related to, Burkitt's, 561

Actin, cytogenetic and immunohistochemical profile of myxoid liposarcoma, 20

Activated partial thromboplastin time, commercial test procedures for detection of lupus anticoagulant, 108

Acute myocardial infarction

LD isoenzymes in conjunction with CK-MB isoenzymes for diagnosis of, 513

myoglobin in diagnosis in emergency department setting, 725 Adenocarcinomas

autologous human B-cell immune response to pulmonary adenocarcinomatous polymorphic epithelial mucin, 500

basal cell, of salivary glands, 603

of breast, mechanical disaggregation of scirrhous breast adenocarcinomas for DNA flow cytometric analysis of whole cells, 8

endometrial, alteration of p53 tumor suppressor gene and activation of c-K-ras-2 proto-oncogene in endometrial adenocarcinoma, 224

gastrointestinal, utility of antibodies to monospecific cytokeratins, gross cystic disease fluid protein, and estrogen receptor in differential diagnosis of, 510

immunohistochemical identification of tumor markers in metastatic adenocarcinoma, 500

mammary, signet ring, utility of antibodies to monospecific cytokeratins, gross cystic disease fluid protein, and estrogen receptor in differential diagnosis of, 510

renal, 624

validity of criteria used to differentiate reactive changes, glandular dysplasia, and adenocarcinoma, 509

Adenoma malignum, mimic of, 614

Adenomyosis, with sparse glands, 218

AgNOR, biologic characterization of hereditary non-polyposis colorectal cancer, 265

Page numbers beginnning with "S" denote articles in April supplement. AIDS

detection of HIV and Epstein-Barr virus in AIDS-related lymphomas, 518

lymphomas related to, Burkitt's, 561

Albumin, matrix effects with College of American Pathologists Comprehensive Chemistry Survey material for, 515

Alkaline phosphatase, isoenzymes of, by selective chemical inhibition, HITACHI 704 Analyzer for, 513

Allergy testing, pre-screening strategies for, 515

Alloimmune thrombocytopenia, neonatal, fetal bleeding in, lack of association with inhibition of fibrinogen binding to platelet GPIIb/IIIa, 636

Altitude, validity of universal hematology reference ranges in higher altitudes, 516

Amitriptyline, effectiveness of Triage Panel for Drugs of Abuse Plus Tricyclic Antidepressants for patients receiving therapeutic doses of, 514

Amniotic fluid, DNA typing of human MN and Ss blood group antigens in amniotic fluid and following massive transfusion, 353

Anaerobic media, laboratory detection of Clostridium difficile, 52

Anatomic pathology

likelihood ratios and receiver operating curves in interpretation of bronchial brush specimens, 588

workstation for, 527

Anticardiolipin antibodies, EDTA-dependent pseudothrombocytopenia, 103

Anticoagulation

Coumatrak system in large anticoagulation clinic, 98

heparin-induced increase in International Normalized Ratio and,

monitoring anticoagulant effects of low molecular weight heparin preparation, 642

Anticoagulation factor Xa, monitoring anticoagulant effects of low molecular weight heparin preparation, 642

Anti-HBe, hepatitis B E antigen detection in formalin-fixed liver biopsy specimens, 136

Antineutrophil antibodies

cytoplasmic, identification of anti-SS positive sera by atypical staining patterns on immunofluorescence assays, 526

mediation of platelet satellitism by Fc[gamma]RIII (CD16) receptors, 740

Antinuclear antibodies, clinical correlation of detection by enzymelinked immunosorbent assay, 525

Antiphospholipid antibodies, EDTA-dependent pseudothrombocytopenia, 103

Antiplatelet antibodies

EDTA-dependent pseudothrombocytopenia, 103

mediation of platelet satellitism by Fc[gamma]RIII (CD16) receptors, 740

Anti-SS positive sera, identification by atypical staining patterns on immunofluorescence assays for anti-neutrophil cytoplasmic anti-body, 526

Antistreptolysin O, nephelometric and hemolytic techniques for determination of antistreptolysin O antibodies, 396 Apoptosis

histopathologic changes in colonic biopsy in acute graft-versus-host disease, 690

tumor type as determinant of susceptibility to, 300

Apoptotic index, tumor type as determinant of susceptibility to apoptosis, 300

Aspartate aminotransferase, matrix effects with College of American Pathologists Comprehensive Chemistry Survey material for, 515

Aspergillus, rapid method for detection of Aspergillus 5S ribosomal RNA using a genus-specific oligonucleotide probe, 48

Aspirin, effects on Thrombostat 4000, 519

Astrocytomas

grading of astrocytomas using neural networks and linear discriminant functions based on morphometric measurements collected using static image cytometry, 502

protoplasmic, 705

Atrophy, adenomyosis with sparse glands, 218

Automation

cost analysis of point-of-care testing in community hospital, 240 identification of patients for pharmacologic review by computer analysis of clinical laboratory drug concentration data, 710

quality team approach in evaluating automated hematology analyzers with five-part differential capability, 159

robotics in the hematology laboratory, 154

Autopsy

infections at autopsy in patients with HIV infection, 524 pathologic examination of fetal specimens from dilation and evacuation procedures, 415

B

BacT/Alert system

automated BacT/Alert system for pediatric blood culturing, 320 comparison of BacT/Alert and Isolator blood culture systems for recovery of fungi, 660

Bacteremia, automated BacT/Alert system for pediatric blood culturing, 320

Bacteriological techniques, evaluation of culture conditions used for isolation of *Chlamydia pneumoniae*, 141

Bacteriuria

cytospin slide centrifuge Gram's stained smear for detection of bacteriuria and comparison with Filtracheck-UTl and UTlscreen, 316

rapid screening method for detection of, 523

Barrett's ulcer, 504

Basal cell adenocarcinomas, of salivary glands, 603

Basal cell carcinomas, immunohistologic differential diagnosis of, in small cutaneous biopsy specimens, 508

Basement cells, as method to distinguish between intraductal comedocarcinoma and infiltrating ductal carcinoma, 503

Basic science reviews, 379

B-cell(s)

autologous human B-cell immune response to pulmonary adenocarcinomatous polymorphic epithelial mucin, 500

lymphoma of mucosa-associated lymphoid tissue of lung, 341 reactive versus neoplastic monocytoid B-cell proliferation, 330

B-cell lymphoma, T-cell-rich, 4, 65

bcl-2

analysis of follicular lymphoma by Southern blotting and polymerase chain reaction using, 511 immunoreactivity in Wilms tumor, 505

T-cell-rich B-cell lymphoma, 65

ber, clinical performance of analysis for, 517

Bedside testing

cost analysis of point-of-care testing in community hospital, 240 laboratory and bedside evaluation of portable glucose meters, 244

Biomaterials, inflammatory responses to, 466

Biopty gun, 512

Biotin, rapid method for detection of Aspergillus 5S ribosomal RNA using a genus-specific oligonucleotide probe, 48

Birefringence, molecular-based magnet test for malaria, 57

Bladder cancer, p53 mutation as prognostic parameter in invasive transitional cell carcinoma of urinary bladder, 506

Blood. See also Coagulation; Hematopoietic progenitor cells human umbilical cord, stored

retention of proliferative activity by hematopoietic progenitor cells of, 522

self-renewal capacity of hematopoietic progenitor cells in, 522 Biood culture

automated BacT/Alert system for pediatric blood culturing, 320 comparison of BacT/Alert and Isolator blood culture systems for recovery of fungi, 660

Blood films, EDTA-associated leukoagglutination, 338

Blood glucose meters, 125

laboratory and bedside evaluation of portable glucose meters, 244

Blood groups, DNA typing of human MN and Ss blood group antigens in amniotic fluid and following massive transfusion, 353

Blood substitutes, hemoglobin-based, effect on routine testing in blood bank, 520

Blood transfusions. See also Transfusion reactions

DNA typing of human MN and Ss blood group antigens in amniotic fluid and following massive transfusion, 353

effects of filtration and infusion with syringe pump on integrity of red blood cells, 520 effects of hemoglobin solution used as red cell substitute on typing of

red cells and screening for antibodies in serum, 520 importance of communication between transfusion medicine spe-

importance of communication between transfusion medicine specialists and clinicians, S3

infectious disease markers in blood donations, comparison by type of donation, time of donation, and gender of donor, 522

lack of association of fetal bleeding in neonatal alloimmune thrombocytopenia with inhibition of fibrinogen binding to platelet GPIIb/IIIa, 636

massive, in cardiac transplant recipients, 519

safety of omission of pre-transfusion red blood cell antibody detection tests, 519

in transplant candidates requiring left ventricular assist devices, 519 Bone lesions, fine-needle aspiration in diagnosis of, 512

Bone marrow

bone marrow involvement in anaplastic large cell lymphoma, 82

H1 automated differential counter in determination of bone marrow remission in acute leukemia, 492

immunohistochemical evaluation of bone marrow micrometastases in breast cancer, 503

transforming growth factor- β deposition in marrow in myelofibrosis and intercellular localization and secretion by leukemic cells, 574

in vivo effects of recombinant human stem cell factor treatment, 177 Bone marrow transplantation

allogenic, immunohematologic seroconversion rates in, 521

histopathologic changes in colonic biopsy in acute graft-versus-host disease, 690 Brain

biopsy of, frozen section evaluation of diagnostic yield of stereotactic brain biopsies at stereotactic target position, 502

primary Ki-1 lymphoma of, 496

Breast cancer

absence of Epstein-Barr virus in medullary carcinoma of breast as demonstrated by immunophenotyping, in situ hybridization and polymerase chain reaction, 449

basal cell carcinomas, immunohistologic differential diagnosis of, in small cutaneous biopsy specimens, 508

basement membrane and myoepithelial cells as method to distinguish between intraductal comedocarcinoma and infiltrating ductal carcinoma, 503

CD31 quantitative immunohistochemical assays in breast carcinomas, 443

cytopathology of proliferative breast disease, 438

displacement of carcinomatous epithelium in surgical breast specimens following stereotaxic core biopsy, 598

DNA cytometry of, comparison of imprint smear and tissue section for, 503

frozen section examination of breast biopsies, 6

histologic grading of, 123

immunohistochemical evaluation of bone marrow micrometastases in 503

interobserver reproducibility of Nottingham modification of Bloom and Richardson histologic grading scheme for infiltrating ductal carcinoma, 195

mechanical disaggregation of scirrhous breast adenocarcinomas for DNA flow cytometric analysis of whole cells, 8

utility of antibodies to monospecific cytokeratins, gross cystic disease fluid protein, and estrogen receptor in differential diagnosis of mammary signet ring adenocarcinomas, 510

Breast disease, clinician-pathologist relationship in management of breast disease, \$17

Breast hamartomas, 685

Breast lesions

accuracy and reliability of frozen section diagnosis of nonpalpable breast lesions, 199

combined cytologic and biopsy results with Biopty gun and, 512 Bronchial brush specimens, likelihood ratios and receiver operating

curves in interpretation of, 588

Bronchiolitis obliterans organizing pneumonia, as idiopathic non-specific response versus atypical form of rejection of infection in lung allograft recipients, 500

Burkitt's lymphomas, AIDS-related, 561

C

Calcofluor white, fluorochrome calcofluor white in screening of stool specimens for spores of Microsporida, 656

Cancer. See also specific sites and types of cancer staging of, clinical pathologists' roles in, 679

Candida, complementarity of endoscopic biopsies and cytologic brushings of esophagus, 295

Candida albicans

Murex Candida albicans CA50 test for rapid identification of isolates of, 523

specific immunohistochemical identification of Candida albicans in a paraffin-embedded tissue with a new monoclonal antibody, 130

Candidiasis

microbiologic versus cytologic detection of, in pulmonary lavage specimens, 524

specific immunohistochemical identification of Candida albicans in a paraffin-embedded tissue with a new monoclonal antibody, 130

Capillaries, biologic characterization of hereditary non-polyposis colorectal cancer 265

Carcinoembryonic antigen, expression in gastrointestinal carcinoids, implications for immunodiagnosis and immunotherapy, 504

Carcinoids, gastrointestinal, expression of tumor-associated glycoprotein-72 and carcinoembryonic antigen in, implications for immunodiagnosis and immunotherapy, 504

Carcinomas. See also specific types

of breast. See Breast cancer

chromophobe, renal, 624

epithelial-myoepithelial, of salivary glands, 432

esophageal, complementarity of endoscopic biopsies and cytologic brushings of esophagus, 295

gastric, gastric carcinoma with osteoclast-like giant cells, 453

hepatic, utility of villin and cytokeratins 7 and 20 in differential diagnosis of, 505

KP1/CD68 expression in malignant neoplasms including lymphomas, sarcomas, and carcinomas, 425

of lung. See Lung cancer

lymphoepithelioma-like

absence of Epstein-Barr virus in medullary carcinoma of breast as demonstrated by immunophenotyping, *in situ* hybridization and polymerase chain reaction, 449

role of Epstein-Barr virus in, 308

prostatic. See Prostate carcinoma

renal cell, DNA and PCNA content of renal cell carcinoma and prognosis. 14

squamous cell

immunohistologic differential diagnosis of, in small cutaneous biopsy specimens, 508

of penis, overexpression of epidermal growth factor receptor in, 506

transitional cell, of urinary bladder, p53 mutation as prognostic parameter in, 506

Carcinosarcomas, of uterus, with rhabdoid tumor component, 235

CD16, mediation of platelet satellitism by Fc[gamma]RIII (CD16) receptors, 740

CD30, primary Ki-1 lymphoma of brain and spinal cord, 496 CD34

cytogenetic and immunohistochemical profile of myxoid liposarcoma, 20

in vivo effects of recombinant human stem cell factor treatment, 177 CD36, cytogenetic and immunohistochemical profile of myxoid liposarcoma, 20

CD56, large granular lymphocyte leukemia, 76

CD68, KP1/CD68 expression in malignant neoplasms including lymphomas, sarcomas, and carcinomas, 425

Cell culture, evaluation of culture conditions used for isolation of Chlamydia pneumoniae, 141

Cell disaggregation, mechanical disaggregation of scirrhous breast adenocarcinomas for DNA flow cytometric analysis of whole cells, 8

Cell lines, evaluation of culture conditions used for isolation of Chlamydia pneumoniae, 141

Cellulose, histiocytic reaction in pelvic peritoneum associated with oxidized regenerated cellulose, 27

Central nervous system. See also Brain; Spinal cord

recently recognized tumors of, cytological patterns of, 510

Cerebrospinal fluid

minimum cell counts required for flow cytometric immunopheno-

typing of cerebrospinal fluid in cytologic assessment of hematologic malignancies, 512

polymerase chain reaction detection of tumor-derived p53 DNA in cerebrospinal fluid, 404

Cervical cancer, cytologic/histologic correlation for quality control in cervicovaginal cytology, 32

Cervix, uterine. See Cervical cancer; Uterine cervix

Cesarean section, vernix caseosa peritonitis and, 681

Children. See Newborns; Pediatrics

Chlamydia pneumoniae, evaluation of culture conditions used for isolation of, 141

Chloride, matrix effects with College of American Pathologists Comprehensive Chemistry Survey material for, 515

Cholesterol

direct measurement LDL cholesterol kit using Beckman Synchron CX CE versus Friedewald's calculated LDL method, 513

pathogenesis of hypercholesterolemia in patients with panic disorder and irritable bowel syndrome, 513

screening for dyslipidemia, 380

Chondrosarcomas, chondroid chordoma and, 271

Chordomas, chondroid, 271

Choristomas, neuromuscular, 460

Chromogenic Factor VII assay, on automated analyzer for diagnostic clinical testing, 518

Chromogenic substrate assay, of tissue factor pathway inhibitor activity in plasma and serum, 391

Chromophobe carcinomas, renal, 624

Chromosomes, cytogenetic and immunohistochemical profile of myxoid liposarcoma, 20

c-Jun, expression in adenocarcinomas, 526

CK-MB isoenzymes, in conjunction with LD isoenzymes for diagnosis of acute myocardial infarction, 513

Clinical pathologists

communication with clinicians. See Communication

importance of communication between pathologist and clinician in caring for patients receiving gynecologic treatment, S13

interaction with gastroenterologists, S9

Clinical pathology

basic science reviews for, 379

future of, 121

Graylyn Conference report, 127

pathologist-clinician interaction and, S1

Clinicians, pathologists' communication with. See Communication Clostridium difficile, laboratory detection of, 52

C-MET, basic FGF, $TGF\alpha$, C-MET and PCNA as indicators of invasiveness in primary melanomas, 508

Coagulation

chromogenic substrate assay of tissue factor pathway inhibitor activity in plasma and serum, 391

tests of

comparison of lyophilized artificially depleted plasmas and lyophilized plasmas from patients receiving warfarin in correcting for coagulometer effects on International Normalized Ratios, 366

plasma calibrants for correcting coagulometer effects on International Normalized Ratios, 358

Coefficient of variation, mechanical disaggregation of scirrhous breast adenocarcinomas for DNA flow cytometric analysis of whole cells, 8

Collecting duct carcinoma, 624

College of American Pathologists Comprehensive Chemistry Survey materials, matrix effects with, 515

Colonic biopsy, histopathologic changes in colonic biopsy in acute graft-versus-host disease, 690

Colorectal cancer, biologic characterization of hereditary non-polyposis colorectal cancer, 265

Comedocarcinomas, intraductal, basement membrane and myoepithelial cells as method to distinguish between intraductal comedocarcinoma and infiltrating ductal carcinoma, 503

Communication

clinician-pathologist relationship in management of breast disease, \$17

with gastroenterologists, S9

importance in caring for patients receiving gynecologic treatment, \$13

pathologist-clinician interaction and, S1

with urologists, S21

Computer(s). See also Internet

anatomic pathology workstation, 527

identification of patients for pharmacologic review by computer analysis of clinical laboratory drug concentration data, 710

Computerization, cost analysis of point-of-care testing in community hospital, 240

Congenital anomalies, pathologic examination of fetal specimens from dilation and evacuation procedures, 415

Continuing education, interactive, computer-based, self-instruction for on Internet, 526

Corvnebacterium equi, 649

Cost effectiveness

cost analysis of point-of-care testing in community hospital, 240 of fine-needle aspiration cytology in tertiary hospital practice, 512 strategy to promote rational clinical chemistry test utilization, 718

Coumadin, comparison of lyophilized artificially depleted plasmas and lyophilized plasmas from patients receiving warfarin in correcting for coagulometer effects on International Normalized Ratios, 366

Coumatrak apparatus, in large anticoagulation clinic, 98

Cross-reacting immunologic materials, acute intermittent porphyria in native North American family and, 730

Cryoablation, pathologic changes in prostate biopsies following cryoablation therapy of prostate carcinoma, 507

Cyclin D1, expression in non-Hodgkin's lymphomas, 756

Cystitis, interstitial, lack of evidence of viral infection in, 506

Cystitis cystica/glandularis, cytologic features of, 511

Cytogenetics

comparison of cytogenetic analysis, Southern analysis, and polymerase chain reaction for detection of t(14;18) in follicular lymphoma, 472

cytogenetic and immunohistochemical profile of myxoid liposarcoma, 20

of intraneural perineuroma, 696

Cytohistologic correlation, etiologies for non-correlating cervical cytologies and biopsies, 594

Cytokeratin 7

antibodies to, in differential diagnosis of gastrointestinal versus mammary signet ring adenocarcinomas, 510

consistent expression in papillary renal cell carcinomas, 505 utility in differential diagnosis of carcinoma in liver, 505

Cytokeratin 20

antibodies to, in differential diagnosis of gastrointestinal versus mammary signet ring adenocarcinomas, 510

utility in differential diagnosis of carcinoma in liver, 505

Cytology

complementarity of endoscopic biopsies and cytologic brushings of esophagus, 295

cytologic/histologic correlation for quality control in cervicovaginal cytology, 32

cytopathology of proliferative breast disease, 438

Cyto-Rich monolayer system, 510

etiologies for non-correlating cervical cytologies and biopsies, 594 features of cystitis cystica/glandularis, 511

fine-needle aspiration cytologic diagnosis of lymphoepithelioma-like carcinoma of lung. 35

likelihood ratios and receiver operating curves in interpretation of bronchial brush specimens, 588

microbiologic versus cytologic detection of of candidiasis in pulmonary lavage specimens, 524

of recently recognized central nervous system tumors, 510

ThinPrep versus direct smear cytologic preparations in analysis of fine-needle aspiration of thyroid, 510

tumor oncogenic expression in malignant effusions as method to enhance cytologic diagnostic sensitivity, 206

Cytometry. See also Image cytometry

DNA cytometry of tissue sections, comparison of imprint smear and tissue section for, 503

Cytopathology

aspiration cytopathology of malignant melanoma in children, 231 surgical pathology and, 263

Cyto-Rich monolayer system, 510

D

Decentralized testing, laboratory and bedside evaluation of portable glucose meters, 244

Deep venous thrombosis, monitoring anticoagulant effects of low molecular weight heparin preparation, 642

Delivery, vernix caseosa peritonitis and, 681

Dendritic cells, extranodal follicular dendritic cell sarcoma of the gastrointestinal tract, 90

Desmin, cytogenetic and immunohistochemical profile of myxoid liposarcoma, 20

Diagnostic pathology, clinician-pathologist relationship in management of breast disease, S17

Diarrhea, laboratory detection of Clostridium difficile, 52

Dilation and extraction, pathologic examination of fetal specimens from dilation and evacuation procedures, 415

Direct detection, fluorochrome calcofluor white in screening of stool specimens for spores of Microsporida, 656

Disseminated intravascular coagulation, promyelocytic blast crisis of chronic myelogenous leukemia, 185

DNA

DNA and PCNA content of renal cell carcinoma and prognosis, 14 DNA cytometry of tissue sections, comparison of imprint smear and tissue section for, 503

flow cytometric analysis of nuclear DNA content in reactive follicular hyperplasia of lymphoid tissue, 518

polymerase chain reaction detection of tumor-derived p53 DNA in cerebrospinal fluid, 404

DNA ploidy

mechanical disaggregation of scirrhous breast adenocarcinomas for DNA flow cytometric analysis of whole cells, 8

nuclear DNA ploidy of prostate carcinoma in biopsy and resection specimens, image and flow cytometric study of, 507

relationship between DNA ploidy level, nuclear size, and survival in large cell lymphoma, 568

variation in DNA ploidy values collected using static image cytometry, 509

Down syndrome, newborns with, disorder simulating acute leukemia in, 517

Doxapine, effectiveness of Triage Panel for Drugs of Abuse Plus Tricyclic Antidepressants for patients receiving therapeutic doses of, 514

Drug monitoring, therapeutic, identification of patients for pharmacologic review by computer analysis of clinical laboratory drug concentration data, 710

Ductal carcinoma

infiltrating, basement membrane and myoepithelial cells as method to distinguish between intraductal comedocarcinoma and infiltrating ductal carcinoma, 503

in situ, cytopathology of proliferative breast disease, 438

Duodenal ulcers, effect of Helicobacter pylori on antral enterochromaffin cells and, 505

Dyslipidemia, screening for, 380

E

Ectopic pregnancy, biochemical discrimination of pathologic pregnancy from early, normal intrauterine gestation in symptomatic patients, 386

Education

clinician-pathologist relationship in management of breast disease, S17

continuing, interactive, computer-based, self-instruction for, on Internet, 526

Efficiency, link between pathology department and laboratory medicine and medical administration and, S24

Effusions, tumor oncogenic expression in malignant effusions as method to enhance cytologic diagnostic sensitivity, 206

Ehrlichiosis, of [gamma]/\delta T cells in, 761

Electron microscopy

chondroid chordoma and, 271

differentiation and risk assessment of gastrointestinal stromal tu-

Embolism, pulmonary, monitoring anticoagulant effects of low molecular weight heparin preparation, 642

Emperipolesis, megakaryocytic, frequency and significance in myelodysplastic syndrome. 517

Empowerment, quality team approach in evaluating automated hematology analyzers with five-part differential capability, 159

Endometrial adenocarcinoma, alteration of p53 tumor suppressor gene and activation of c-K-ras-2 proto-oncogene in endometrial adenocarcinoma. 224

Endometriosis, adenomyosis with sparse glands, 218

Enterochromaffin cells, antral, in duodenal ulcer patients, effect of *Helicobacter pylori* on, 505

Enzyme immunoassays

correlation between HIV type 1 and 2 EIA screen's signal to cutoff ratio and results of commercially available Western blot confirmatory assays, 523

for screening for serum anti-nuclear antibodies, comparison to standard manual immunofluorescence, 525

Enzyme-linked immunosorbent assay, clinical correlation of antinuclear antibody determination by, 525

Eosinophilia, plasma cell myeloma associated with, 583

Epidermal growth factor, overexpression in squamous cell neoplasia of penis, 506

Epithelial hyperplasia, cytopathology of proliferative breast disease, 438

Epstein-Barr virus

absence of Epstein-Barr virus in medullary carcinoma of breast as demonstrated by immunophenotyping, in situ hybridization and polymerase chain reaction, 449

B-cell chronic lymphocytic leukemia followed by high grade T-cell lymphoma, 348

detection in AIDS-related lymphomas, 518

gastric carcinoma with osteoclast-like giant cells, 453

role of Epstein-Barr virus in lymphoepithelioma-like carcinomas, 308

T-cell-rich B-cell lymphoma, 65

virus-associated hemophagocytic syndrome characterized by clonal Epstein-Barr virus genome, 189

Erythropoietin, pure red cell aplasia associated with thymic lymphoid hyperplasia and secondary erythropoietin resistance, 346

Esophageal carcinoma, complementarity of endoscopic biopsies and cytologic brushings of esophagus, 295

Esophagus, complementarity of endoscopic biopsies and cytologic brushings of esophagus, 295

Estriol, low maternal serum unconjugated estriol during prenatal screening as indication of placental steroid sulfatase deficiency and X-linked ichthyosis, 400

Estrogen, biochemical discrimination of pathologic pregnancy from early, normal intrauterine gestation in symptomatic patients, 386

Estrogen receptors. See Hormone receptors

Ethylenediaminetetraacetic acid

EDTA-dependent pseudothrombocytopenia, 103

mediation of platelet satellitism by Fc[gamma]RIII (CD16) receptors, 740

Ethylene tetraacetic acid, EDTA-associated leukoagglutination, 338

Expert systems, identification of patients for pharmacologic review by computer analysis of clinical laboratory drug concentration data, 710

F

Fatty proliferations, lipomatous proliferations of heart and pericardium associated with non-cardiac fatty proliferations, 507

Feulgen staining, relationship between DNA ploidy level, nuclear size, and survival in large cell lymphoma, 568

Fibrinogen

inflammatory responses to biomaterials, 466

lack of association of fetal bleeding in neonatal alloimmune thrombocytopenia with inhibition of fibrinogen binding to platelet GPIIb/IIIa, 636

Fibroblast growth factor, basic FGF, $TGF\alpha$, C-MET and PCNA as indicators of invasiveness in primary melanomas, 508

Fibrocystic changes, cytopathology of proliferative breast disease, 438 Filtracheck-UTI, cytospin slide centrifuge Gram's stained smear for detection of bacteriuria and comparison with Filtracheck-UTI and UTIscreen, 316

Fine-needle aspiration

aspiration cytopathology of malignant melanoma in children, 231 cost effectiveness and accuracy of, in tertiary hospital practice, 512 cytologic diagnosis of lymphoepithelioma-like carcinoma of lung using, 35

diagnosis of basal cell adenocarcinoma of salivary gland by, 603 in diagnosis of bone lesions, 512

malignant lymphoma diagnosis by, 511

of thyroid, ThinPrep versus direct smear cytologic preparations in analysis of, 510

Five-part differential, quality team approach in evaluating automated hematology analyzers with five-part differential capability, 159 Florid deep glands, of uterine cervix, 614 Flow cytometry

analysis of nuclear DNA content in reactive follicular hyperplasia of lymphoid tissue by, 518

epithelial-myoepithelial carcinoma of salivary glands, 432

with fine-needle aspiration, malignant lymphoma diagnosis by, 511 mechanical disaggregation of scirrhous breast adenocarcinomas for DNA flow cytometric analysis of whole cells, 8

minimum cell counts required for flow cytometric immunophenotyping of cerebrospinal fluid in cytologic assessment of hematologic malignancies, 512

nuclear DNA ploidy of prostate carcinoma in biopsy and resection specimens, image and flow cytometric study of, 507

ploidy analysis of products of conception by image and flow cytometry with cytogenetic correlation, 409

precision and accuracy of monocyte counting, 167

Focal periglandular infiltrate, histopathologic changes in colonic biopsy in acute graft-versus-host disease, 690

Frameshift mutations, acute intermittent porphyria in native North American family and, 730

Frozen sections

accuracy and reliability of frozen section diagnosis of nonpalpable breast lesions, 199

comparison of antibodies for estrogen and progesterone receptors using paraffin-embedded tissues and frozen sections, 503

frozen section evaluation of diagnostic yield of stereotactic brain biopsies at stereotactic target position, 502

frozen section examination of breast biopsies, 6

Fungi, comparison of BacT/Alert and Isolator blood culture systems for recovery of, 660

G

Gastric acid secretion, gastric mucosal pancreatic acinar cells in different stages of, 504

Gastric carcinoma, with osteoclast-like giant cells, 453

Gastroenterologists, pathologists' interaction with, S9

Gastrointestinal adenocarcinoma, utility of antibodies to monospecific cytokeratins, gross cystic disease fluid protein, and estrogen receptor in differential diagnosis of, 510

Gastrointestinal carcinoids, expression of tumor-associated glycoprotein-72 and carcinoembryonic antigen in, implications for immunodiagnosis and immunotherapy, 504

Gastrointestinal neoplasms, differentiation and risk assessment of gastrointestinal stromal tumors, 41

Gastrointestinal tract, extranodal follicular dendritic cell sarcoma of the gastrointestinal tract, 90

Gene carriers, acute intermittent porphyria in native North American family and, 730

Gene rearrangement

comparison of PCR with Southern hybridization for routine detection of immunoglobulin heavy chain gene rearrangements, 171 T-cell-rich B-cell lymphoma, 65

Germinal centers, extranodal lymphocyte predominance in Hodgkin's disease, 485

Giant cells, gastric carcinoma with osteoclast-like giant cells, 453

Glioblastoma, polymerase chain reaction detection of tumor-derived p53 DNA in cerebrospinal fluid, 404

Gliomas, mixed, 502

Glomus coccygeum, in surgical pathology specimens, 505

Glucose, matrix effects with College of American Pathologists Comprehensive Chemistry Survey material for, 515 Glycophorins, DNA typing of human MN and Ss blood group antigens in amniotic fluid and following massive transfusion, 353

Grading

biologic characterization of hereditary non-polyposis colorectal cancer, 265

interobserver reproducibility of Nottingham modification of Bloom and Richardson histologic grading scheme for infiltrating ductal carcinoma. 195

Graft-versus-host disease

acute, histopathologic changes in colonic biopsy in, 690

immunohistochemical indentification of perforin-positive cytotoxic lymphocytes in graft-versus-host disease, 324

Gram's stain, cytospin slide centrifuge Gram's stained smear for detection of bacteriuria and comparison with Filtracheck-UTI and UTIscreen. 316

Granulomatous synovitis, Mycobacterium marinum and, 524

Graylyn Conference report, 127

Gross cystic disease fluid protein-15, in differential diagnosis of gastrointestinal versus mammary signet ring adenocarcinomas, 510

Gynecology, importance of communication between pathologist and clinician in caring for patients receiving gynecologic treatment, \$13

H

H1 automated differential counter, in determination of bone marrow remission in acute leukemia, 492

Hamartomas, 460

of breast, 685 Haptoglobins, measurement of, in evaluation of suspected hemolytic

transfusion reactions, 520

HBeAG, hepatitis B E antigen detection in formalin-fixed liver biopsy

specimens, 136 HBV-DNA, hepatitis B E antigen detection in formalin-fixed liver bi-

opsy specimens, 136

HBV sequences, hepatitis B E antigen detection in formalin-fixed liver

biopsy specimens, 136

Heart, lipomatous proliferations of, associated with non-cardiac fatty proliferations, 507

Heart transplantation

effects of massive transfusion in recipients, 519

transfusions in candidates requiring left ventricular assist devices, 519

Helicobacter pylori, effect on antral enterochromaffin cells in duodenal ulcer patients, 505

Hemangioblastomas, cerebellar, 502

Hematologic malignancies, minimum cell counts required for flow cytometric immunophenotyping of cerebrospinal fluid in cytologic assessment of, 512

Hematology, validity of universal hematology reference ranges in higher altitudes, 516

Hematology analyzers

Chromogenic Factor VII assay on automated analyzer for diagnostic clinical testing, 518

Coulter STKS Hematology Analyzer, evaluation of acute myelogenous and acute lymphoblastic leukemia by, 516

precision and accuracy of monocyte counting, 167

quality team approach in evaluating automated hematology analyzers with five-part differential capability, 159

robotics in the hematology laboratory, 154

Hematopoietic progenitor cells

reduction of IL-2 and TNF-α expression at mRNA and protein level in PHA stimulated T-cells from, reduction by ultraviolet-B light, 522

in stored human umbilical cord blood

retention of proliferative activity by, 522

self-renewal capacity of, 522

Hemoglobin

blood substitutes based on, effect on routine testing in blood bank, 520

effects of hemoglobin solution used as red cell substitute on typing of red cells and screening for antibodies in serum, 520

Hemoglobin S

automated HPLC method for quantification of, 514 effect of iron deficiency on expression of, 514

Hemolytic techniques, nephelometric and hemolytic techniques for determination of antistreptolysin O antibodies, 396

Hemolytic uremic syndrome, secondary to pancreatitis, 519

Hemophagocytic syndrome, virus-associated hemophagocytic syndrome characterized by clonal Epstein-Barr virus genome, 189

Hemostatic agents, topical, histiocytic reaction in pelvic peritoneum associated with oxidized regenerated cellulose, 27

Hemozoin, molecular-based magnet test for malaria, 57

Heparin

effect of heparin removal filter on platelet aggregation studies in heparin induced thrombocytopenia, 745

heparin-induced increase in International Normalized Ratio and, 735

monitoring anticoagulant effects of low molecular weight heparin preparation, 642

Hepatic cancer

hepatocellular carcinoma, prevalence of hepatitis C virus in patients with, 524

utility of villin and cytokeratins 7 and 20 in differential diagnosis of, 505

Hepatitis

hepatitis B E antigen detection in formalin-fixed liver biopsy specimens. 136

lymph node as extrahepatic reservoir of hepatitis C virus, 501

prediction of response to chronic hepatitis C infection to interferon therapy by distribution of iron in liver, 419

prevalence of hepatitis C virus in patients with hepatocellular carcinoma, 524

HER-2/neu oncogene, epithelial-myoepithelial carcinoma of salivary glands, 432

High density lipoprotein, screening for dyslipidemia, 380

High-performance liquid chromatography, quantification of hemoglobin S using, 514

Hip replacement, monitoring anticoagulant effects of low molecular weight heparin preparation, 642

Histiocytes, histiocytic reaction in pelvic peritoneum associated with oxidized regenerated cellulose, 27

Histology

cytologic/histologic correlation for quality control in cervicovaginal cytology, 32

etiologies for non-correlating cervical cytologies and biopsies, 594 histologic grading of breast cancer, 123

interobserver reproducibility of Nottingham modification of Bloom and Richardson histologic grading scheme for infiltrating ductal carcinoma, 195

Histopathology, of AIDS-related Burkitt's lymphomas, 561

HITACHI 704 Analyzer, alkaline phosphatase isoenzymes by selective chemical inhibition using, 513

HIV. See Human immunodeficiency virus

Hodgkin's disease

associated with chronic lymphocyte leukemia, 479

extranodal lymphocyte predominance in, 485

Hormone receptors

comparison of antibodies for estrogen and progesterone receptors using paraffin-embedded tissues and frozen sections, 503

estrogen receptors in differential diagnosis of gastrointestinal versus mammary signet ring adenocarcinomas, 510

Host cells, evaluation of culture conditions used for isolation of Chlamydia pneumoniae, 141

Human immunodeficiency virus

correlation between HIV type 1 and 2 EIA screen's signal to cutoff ratio and results of commercially available Western blot confirmatory assays, 523

detection in AIDS-related lymphomas, 518

infections at autopsy in patients infected by, 524

Rhodococcus equi infections and, 649

Human papillomavirus

cytologic/histologic correlation for quality control in cervicovaginal cytology, 32

expression in human squamous papilloma, 527

Human umbilical cord blood, stored

retention of proliferative activity by hematopoietic progenitor cells of, 522

self-renewal capacity of hematopoietic progenitor cells in, 522

Hürthle cells, in oxyphilic papillary thyroid carcinoma, 280

Hydatidiform mole, ploidy analysis of products of conception by image and flow cytometry with cytogenetic correlation, 409

Hydrops, ploidy analysis of products of conception by image and flow cytometry with cytogenetic correlation, 409

Hypercholesterolemia

pathogenesis of, in patients with panic disorder and irritable bowel syndrome, 513

screening for dyslipidemia, 380

Hyperlipidemia, screening for dyslipidemia, 380

I

Ichthyosis, low maternal serum unconjugated estriol during prenatal screening as indication of placental steroid sulfatase deficiency and X-linked ichthyosis, 400

Image analysis

CD31 quantitative immunohistochemical assays in breast carcinomas, 443

nuclear DNA ploidy of prostate carcinoma in biopsy and resection specimens, image and flow cytometric study of, 507

ploidy analysis of products of conception by image and flow cytometry with cytogenetic correlation, 409

Image cytometry

grading of astrocytomas using neural networks and linear discriminant functions based on morphometric measurements collected using static image cytometry, 502

relationship between DNA ploidy level, nuclear size, and survival in large cell lymphoma, 568

variation in DNA ploidy values collected using static image cytometry, 509

Imipramine, effectiveness of Triage Panel for Drugs of Abuse Plus Tricyclic Antidepressants for patients receiving therapeutic doses of, 514 Immunocompromised hosts, *Rhodococcus equi* infections in, 649

Immunoelectron microscopy, carcinosarcoma of uterus with rhabdoid tumor component. 235

Immunofluorescence assays, for anti-neutrophil cytoplasmic antibody, identification of anti-SS positive sera by atypical staining patterns on 526

Immunoglobulins, comparison of PCR with Southern hybridization for routine detection of immunoglobulin heavy chain gene rearrangements, 171

Immunohematologic seroconversion rates, in allogenic bone marrow transplantation, 521

Immunohistochemistry

of AIDS-related Burkitt's lymphomas, 561

bone marrow involvement in anaplastic large cell lymphoma, 82 carcinosarcoma of uterus with rhabdoid tumor component, 235

CD31 quantitative immunohistochemical assays in breast carcinomas, 443

of cerebellar hemangioblastomas, 502

chondroid chordoma and, 271

c-Jun expression in adenocarcinomas, 526

cyclin D1 expression in non-Hodgkin's lymphomas, 756

cytogenetic and immunohistochemical profile of myxoid liposarcoma, 20

differentiation and risk assessment of gastrointestinal stromal tumors, 41

expression of HPV types in squamous papilloma, 527

extranodal follicular dendritic cell sarcoma of the gastrointestinal tract. 90

gastric carcinoma with osteoclast-like giant cells, 453

hepatitis B E antigen detection in formalin-fixed liver biopsy specimens, 136

immunohistochemical evaluation of bone marrow micrometastases in breast cancer, 503

immunohistochemical identification of tumor markers in metastatic adenocarcinoma, 500

immunohistochemical indentification of perforin-positive cytotoxic lymphocytes in graft-versus-host disease, 324

KP1/CD68 expression in malignant neoplasms including lymphomas, sarcomas, and carcinomas, 425

MAb 12C3 as sensitive immunohistochemical marker of early malignant change in epithelial ovarian tumors, 288

of mixed gliomas, 502

specific immunohistochemical identification of Candida albicans in a paraffin-embedded tissue with a new monoclonal antibody, 130

tumor oncogenic expression in malignant effusions as method to enhance cytologic diagnostic sensitivity, $206\,$

in vivo effects of recombinant human stem cell factor treatment, 177 Immunohistology, differential diagnosis of basal cell carcinoma, squamous cell carcinoma, and trichoepithelioma by, in small cutaneous biopsy specimens, 508

Immunophenotype

absence of Epstein-Barr virus in medullary carcinoma of breast as demonstrated by immunophenotyping, in situ hybridization and polymerase chain reaction, 449

extranodal lymphocyte predominance in Hodgkin's disease, 485

FAB and immunophenotype shift from diagnosis to relapse of acute myeloid leukemia, 517

minimum cell counts required for flow cytometric immunophenotyping of cerebrospinal fluid in cytologic assessment of hematologic malignancies, 512 Immunotherapy, expression of tumor-associated glycoprotein-72 and carcinoembryonic antigen in in gastrointestinal carcinoids, implications for, 504

Imprint smear, DNA cytometry of, comparison of imprint smear and tissue section for, 503

Inflammation, inflammatory responses to biomaterials, 466 In situ hybridization

absence of Epstein-Barr virus in medullary carcinoma of breast as demonstrated by immunophenotyping, in situ hybridization and polymerase chain reaction, 449

expression of HPV types in squamous papilloma, 527

rapid method for detection of Aspergillus 5S ribosomal RNA using a genus-specific oligonucleotide probe, 48

reactive versus neoplastic monocytoid B-cell proliferation, 330 Instrument evaluation

precision and accuracy of monocyte counting, 167

quality team approach in evaluating automated hematology analyzers with five-part differential capability, 159

Interferon, prediction of response to chronic hepatitis C infection to interferon therapy by distribution of iron in liver, 419
Interleukin-2

expression at mRNA and protein level in PHA stimulated T-cells from hematopoietic progenitor cells, reduction by ultraviolet-B light 522

plasma cell myeloma associated with eosinophilia and, 583
Intermittent porphyria, acute, in native North American family, 730
International Lymphoma Study Group, classification proposed by, 543
International Normalized Ratios

comparison of lyophilized artificially depleted plasmas and lyophilized plasmas from patients receiving warfarin in correcting for coagulometer effects on, 366

correction of variability of prothrombin time testing by, 515 heparin-induced increase in, 735

plasma calibrants for correcting coagulometer effects on, 358

Internet, interactive computer-based, self-instruction for continuing education on, 526

computer-based laboratory manual on, 527 Intestinal biopsy, histopathologic changes in colonic biopsy in acute graft-versus-host disease, 690

Intraneural perineuroma, 696

Intraoperative consultation, frozen section examination of breast biopsies, 6

Iron

effect of iron deficiency on expression of hemoglobin S, 514 prediction of response to chronic hepatitis C infection to interferon therapy by distribution of iron in liver, 419

Irritable bowel syndrome, pathogenesis of hypercholesterolemia in patients with, 513

Isolator, comparison of BacT/Alert and Isolator blood culture systems for recovery of fungi, 660

K

Ki-1, primary Ki-1 lymphoma of brain and spinal cord, 496 Ki-67

epithelial-myoepithelial carcinoma of salivary glands, 432 in vivo effects of recombinant human stem cell factor treatment, 177 Knee replacement, monitoring anticoagulant effects of low molecular

weight heparin preparation, 642

KP1

histiocytic reaction in pelvic peritoneum associated with oxidized regenerated cellulose, 27

KP1/CD68 expression in malignant neoplasms including lymphomas, sarcomas, and carcinomas, 425

K-ras, alteration of p53 tumor suppressor gene and activation of c-K-ras-2 proto-oncogene in endometrial adenocarcinoma, 224

I.

Laboratory informatics, 677

Laboratory information system, identification of patients for pharmacologic review by computer analysis of clinical laboratory drug concentration data, 710

Laboratory manual, interactive, computer-based, 527

Laboratory medicine

link between pathology department and laboratory medicine and medical administration and, S24

strategy to promote rational clinical chemistry test utilization, 718 Laboratory standardization

comparison of lyophilized artificially depleted plasmas and lyophilized plasmas from patients receiving warfarin in correcting for coagulometer effects on International Normalized Ratios, 366

plasma calibrants for correcting coagulometer effects on International Normalized Ratios, 358

Larynx, necrotizing sialometaplasia of, 609

LD isoenzymes, in conjunction with CK-MB isoenzymes for diagnosis of acute myocardial infarction, 513

Left ventricular assist devices, transfusions in candidates requiring, 519 Leukemia

acute

H1 automated differential counter in determination of bone marrow remission in, 492

lymphoblastic, analysis by Coulter STKS Hematology Analyzer, 516

myelogenous, analysis by Coulter STKS Hematology Analyzer, 516

myeloid, FAB and immunophenotype shift from diagnosis to relapse of, 517

promyelocytic, promyelocytic blast crisis of chronic myelogenous leukemia, 185

chronic

lymphocytic

associated with Hodgkin's disease, 479

followed by high grade T-cell lymphoma, 348

myelogenous

promyelocytic blast crisis of, 185

reverse transcriptase polymerase chain reaction for BCR-ABL fusion in, 501

cyclin D1 expression in non-Hodgkin's lymphomas, 756

disorder simulating, in newborns with Down syndrome, 517

lymphocytic, large granular, 76

transforming growth factor- β deposition in marrow in myelofibrosis and intercellular localization and secretion by leukemic cells, 574

Leukoagglutination, EDTA-associated leukoagglutination, 338 Likelihood ratios, 541

in interpretation of bronchial brush specimens, 588

Linear discriminant functions, grading of astrocytomas using neural networks and linear discriminant functions based on morphometric measurements collected using static image cytometry, 502

Lipids, screening for dyslipidemia, 380

Liposarcoma, cytogenetic and immunohistochemical profile of myxoid liposarcoma. 20 Liver

hepatitis B E antigen detection in formalin-fixed liver biopsy specimens, 136

prediction of response to chronic hepatitis C infection to interferon therapy by distribution of iron in liver, 419

Low density lipoproteins, direct measurement LDL cholesterol kit using Beckman Synchron CX CE versus Friedewald's calculated LDL method, 513

Lung

autologous human B-cell immune response to pulmonary adenocarcinomatous polymorphic epithelial mucin, 500

bronchiolitis obliterans organizing pneumonia as idiopathic nonspecific response versus atypical form of rejection of infection in lung allograft recipients, 500

lymphoma of mucosa-associated lymphoid tissue of lung, 341

Lung cancer

fine-needle aspiration cytologic diagnosis of lymphoepithelioma-like carcinoma of lung, 35

non-small cell, stage II, lack of prediction of survival by microvessel density in, 503

Lupus anticoagulant, commercial test procedures for detection of, 108 Lymph nodes

as extrahepatic reservoir of hepatitis C virus, 501

extranodal follicular dendritic cell sarcoma of the gastrointestinal tract, 90

Lymphocytes

cytotoxic, immunohistochemical indentification of perforin-positive cytotoxic lymphocytes in graft-versus-host disease, 324

EDTA-associated leukoagglutination, 338

Hodgkin's disease associated with chronic lymphocytic leukemia, 479

large granular lymphocyte leukemia, 76

Lymphocytosis, of [gamma]/\delta T cells in human ehrlichiosis, 761

Lymphoepithelioma-like carcinomas

absence of Epstein-Barr virus in medullary carcinoma of breast as demonstrated by immunophenotyping, in situ hybridization and polymerase chain reaction, 449

role of Epstein-Barr virus in, 308

Lymphoepithelium, fine-needle aspiration cytologic diagnosis of lymphoepithelioma-like carcinoma of lung, 35

Lymphoid follicular hyperplasia, pure red cell aplasia associated with thymic lymphoid hyperplasia and secondary erythropoietin resistance, 346

Lymphoid tissue, flow cytometric analysis of nuclear DNA content in reactive follicular hyperplasia of, 518

Lymphomas

AIDS-related, detection of HIV and Epstein-Barr virus in, 518

anaplastic large cell, bone marrow involvement in, 82

B-cell

rapid detection of molecular changes in, 518

T-cell-rich, 4, 65

Burkitt's, AIDS-related, 561

comparison of cytogenetic analysis, Southern analysis, and polymerase chain reaction for detection of t(14;18) in follicular lymphoma. 472

follicular, bcl-2 analysis of, by Southern blotting and polymerase chain reaction, 511

Hodgkin's disease. See Hodgkin's disease

large cell, relationship between DNA ploidy level, nuclear size, and survival in, 568

lymphoma of mucosa-associated lymphoid tissue of lung, 341 malignant

classification of, 539, 543

diagnosis by fine-needle aspiration with flow cytometry, 511 non-Hodgkin's

cyclin D1 expression in, 756

KP1/CD68 expression in malignant neoplasms including lymphomas, sarcomas, and carcinomas, 425

T-cell-rich B-cell lymphoma, 4, 65

post-transplantation lymphoproliferative disorders in solid organ recipients, predominantly aggressive tumors of host origin as, 748 primary Ki-1 lymphoma of brain and spinal cord, 496

reactive versus neoplastic monocytoid B-cell proliferation, 330

T-cell large cell immunoblastic, following chronic lymphocytic Bcell leukemia, 348

Lymphoproliferative disorders

large granular lymphocyte leukemia, 76

post-transplantation, in solid organ recipients, predominantly aggressive tumors of host origin as, 748

M

MAb 12C3, as sensitive immunohistochemical marker of early malignant change in epithelial ovarian tumors, 288

Magnetic separator, molecular-based magnet test for malaria, 57

Malakoplakia, Rhodococcus equi infections and, 649

Malaria, molecular-based magnet test for, 57

Malignant tumors, KP1/CD68 expression in malignant neoplasms including lymphomas, sarcomas, and carcinomas, 425

Matrix effects, with College of American Pathologists Comprehensive Chemistry Survey materials, 515

Mean platelet volume, normalization of, following treatment for thrombotic thrombocytopenic purpura, 516

Meconium, vernix caseosa peritonitis and, 681

Medical administration, link between pathology department and laboratory medicine and medical administration and, S24

Megakaryocytic emperipolesis, frequency and significance in myelodysplastic syndrome, 517

Melanomas

aspiration cytopathology of malignant melanoma in children, 231 primary, basic FGF, $TGF\alpha$, C-MET and PCNA as indicators of invasiveness in, 508

Messenger RNA, reactive versus neoplastic monocytoid B-cell proliferation, 330

Metastatic disease, immunohistochemical evaluation of bone marrow micrometastases in breast cancer, 503

Methicillin-resistant staphylococci

identification by multiplex polymerase chain reaction assay, 501 rapid method for detection of, 523

Microbiology, microbiologic versus cytologic detection of of candidiasis in pulmonary lavage specimens, 524

Microsporida, fluorochrome calcofluor white in screening of stool specimens for spores of, 656

Mitotic index, tumor type as determinant of susceptibility to apoptosis, 300

MNSs blood group system, DNA typing of human MN and Ss blood group antigens in amniotic fluid and following massive transfusion, 353

Monoclonal antibodies

KP1/CD68 expression in malignant neoplasms including lymphomas, sarcomas, and carcinomas, 425

MAb 12C3 as sensitive immunohistochemical marker of early malignant change in epithelial ovarian tumors, 288

specific immunohistochemical identification of Candida albicans in

a paraffin-embedded tissue with a new monoclonal antibody, 130

in vivo effects of recombinant human stem cell factor treatment, 177 Monoclonal gammopathies, of undetermined significance, with monoclonal protein levels < 1.0g/dL, 515</p>

Monocyte counting, precision and accuracy of monocyte counting, 167

Morphology

of AIDS-related Burkitt's lymphomas, 561

aspiration cytopathology of malignant melanoma in children, 231 extranodal follicular dendritic cell sarcoma of the gastrointestinal tract, 90

in vivo effects of recombinant human stem cell factor treatment, 177
Mucin, autologous human B-cell immune response to pulmonary adenocarcinomatous polymorphic epithelial mucin, 500

Mucosa-associated lymphoid tissue, lymphoma of mucosa-associated lymphoid tissue of lung, 341

Mullerian tumor, mixed, malignant, of uterus, with rhabdoid tumor component, 235

Murex Candida albicans CA50 test, 523

Mycobacterium marinum, granulomatous synovitis and, 524

Myelodysplastic syndrome, frequency and significance of megakaryocytic emperipolesis in, 517

Myelofibrosis, transforming growth factor- β deposition in marrow in, 574

Myeloma, plasma cell, associated with eosinophilia, 583

Myocardial infarction, acute

LD isoenzymes in conjunction with CK-MB isoenzymes for diagnosis of, 513

myoglobin in diagnosis in emergency department setting, 725

Myoepithelial cells, as method to distinguish between intraductal comedocarcinoma and infiltrating ductal carcinoma, 503

Myoglobin, in diagnosis of acute myocardial infarction in emergency department setting, 725

N

Native North Americans, acute intermittent porphyria in native North American family and, 730

Natural killer cells, virus-associated hemophagocytic syndrome characterized by clonal Epstein-Barr virus genome, 189

Necrosis, tumor type as determinant of susceptibility to apoptosis, 300 Needles, displacement of carcinomatous epithelium in surgical breast specimens following stereotaxic core biopsy, 598

Neonatal alloimmune thrombocytopenia, fetal bleeding in, lack of association with inhibition of fibrinogen binding to platelet GPIIb/IIIa, 636

Neoplasms. See Tumors; specific neoplasms

Nephelometry, nephelometric and hemolytic techniques for determination of antistreptolysin O antibodies, 396

Nerves, intraneural perineuroma and, 696

Neural networks, grading of astrocytomas using neural networks and linear discriminant functions based on morphometric measurements collected using static image cytometry, 502

Neuroendocrine tumors, renal, 624

Neuromuscular choristomas, 460

Neutrophils, EDTA-associated leukoagglutination, 338

Newborns

alloimmune thrombocytopenia in, 521

fetal bleeding in, lack of association with inhibition of fibrinogen binding to platelet GPIIb/IIIa, 636

with Down syndrome, disorder simulating acute leukemia in, 517

Non-Hodgkin's lymphomas. See Lymphomas, non-Hodgkin's Nuclear area, relationship between DNA ploidy level, nuclear size, and survival in large cell lymphoma. 568

O

Oligonucleotide probes, rapid method for detection of Aspergillus 5S ribosomal RNA using a genus-specific oligonucleotide probe, 48 Oncocytomas, renal, 624

Oncogenes

biologic characterization of hereditary non-polyposis colorectal cancer, 265

cyclin D1 expression in non-Hodgkin's lymphomas, 756 epithelial-myoepithelial carcinoma of salivary glands, 432

tumor type as determinant of susceptibility to apoptosis, 300
Organ donors, post-transplantation lymphoproliferative disorders in
solid organ recipients, predominantly aggressive tumors of host
origin as, 748

Organ transplantation. See also specific organs

bronchiolitis obliterans organizing pneumonia as idiopathic nonspecific response versus atypical form of rejection of infection in lung allograft recipients, 500

histopathologic changes in colonic biopsy in acute graft-versus-host disease, 690

immunohistochemical indentification of perforin-positive cytotoxic lymphocytes in graft-versus-host disease, 324

post-transplantation lymphoproliferative disorders in solid organ recipients, predominantly aggressive tumors of host origin as, 748

Ovarian cancer, MAb 12C3 as sensitive immunohistochemical marker of early malignant change in epithelial ovarian tumors, 288

Oxyphilic cells, in papillary thyroid carcinoma, 280

P

p53

alteration of p53 tumor suppressor gene and activation of c-K-ras-2 proto-oncogene in endometrial adenocarcinoma, 224

immunohistologic detection of p53 expression in benign tumors and non-neoplastic tissues. 509

mutation of, as prognostic parameter in invasive transitional cell carcinoma of urinary bladder, 506

polymerase chain reaction detection of tumor-derived p53 DNA in cerebrospinal fluid, 404

Pancreatic acinar cells, of gastric mucosa, in different stages of gastric acid secretion, 504

Pancreatitis, thrombotic thrombocytopenic purpura/hemolytic uremic syndrome secondary to, 519

Panic disorder, pathogenesis of hypercholesterolemia in patients with, 513

Papillomas, squamous, human papillomavirus expression in, 527

Pap smear, cytologic/histologic correlation for quality control in cervicovaginal cytology, 32

Paraffin-embedded tissues

comparison of antibodies for e trogen and progesterone receptors using paraffin-embedded tissues and frozen sections, 503

specific immunohistochemical identification of Candida albicans in a paraffin-embedded tissue with a new monoclonal antibody, 130

Paragranuloma, extranodal lymphocyte predominance in Hodgkin's disease, 485

Pathology, scope of, 3

Pathology department, link between pathology department and laboratory medicine and medical administration and, S24

PECAM/CD31, CD31 quantitative immunohistochemical assays in breast carcinomas, 443

Pediatrics. See also Newborns

aspiration cytopathology of malignant melanoma in children, $231\,$ automated BacT/Alert system for pediatric blood culturing, $320\,$

practice guidelines for ordering stool cultures in a pediatric population, 149

primary Ki-1 lymphoma of brain and spinal cord, 496

Pelvic peritoneum, histiocytic reaction in pelvic peritoneum associated with oxidized regenerated cellulose, 27

Penile cancer, overexpression of epidermal growth factor receptor in squamous cell neoplasia of penis, 506

Perforin, immunohistochemical indentification of perforin-positive cytotoxic lymphocytes in graft-versus-host disease, 324

Pericardium, lipomatous proliferations of, associated with non-cardiac fatty proliferations, 507

Perineuroma, intraneural, 696

Peripheral nerve sheath tumors, 696

Peritoneum

histiocytic reaction in pelvic peritoneum associated with oxidized regenerated cellulose, 27

reactive tumor-like lesions of, 673

Peritonitis, vernix caseosa, 681

Persantin, effects on Thrombostat 4000, 519

Pharmacokinetics, identification of patients for pharmacologic review by computer analysis of clinical laboratory drug concentration data, 710

Pilar sheath acanthoma, 508

Placenta, ploidy analysis of products of conception by image and flow cytometry with cytogenetic correlation, 409

Plasma, chromogenic substrate assay of tissue factor pathway inhibitor activity in, 391

Plasma cell myeloma, associated with eosinophilia, 583

Plasmodium falciparum, molecular-based magnet test for malaria, 57 Platelet(s)

crossmatched, improvement of corrected count increments in patient refractory to randomly selected platelets, 521

effects of storage age on incidence of non-hemolytic transfusion reactions, 521

leukoreduction of, bedside, effectiveness of, 521

Platelet aggregation, effect of heparin removal filter on platelet aggregation studies in heparin induced thrombocytopenia, 745

Platelet distribution width, normalization of, following treatment for thrombotic thrombocytopenic purpura, 516

Platelet GPIIb/IIIa, lack of association of fetal bleeding in neonatal alloimmune thrombocytopenia with inhibition of fibrinogen binding to platelet GPIIb/IIIa, 636

Platelet satellitism, mediation by Fc[gamma]RIII (CD16) receptors,

Ploidy. See also DNA ploidy

biologic characterization of hereditary non-polyposis colorectal cancer, 265

ploidy analysis of products of conception by image and flow cytometry with cytogenetic correlation, 409

Pneumonia

bronchiolitis obliterans organizing, as idiopathic non-specific response versus atypical form of rejection of infection in lung allograft recipients, 500

evaluation of culture conditions used for isolation of *Chlamydia* pneumoniae, 141

Rhodococcus equi, 649

Point-of-care testing, cost analysis of point-of-care testing in community hospital, 240

Polarized light, molecular-based magnet test for malaria, 57

Polyarteritis nodosa, testicular mass as presenting symptom of, 215 Polymerase chain reaction

absence of Epstein-Barr virus in medullary carcinoma of breast as demonstrated by immunophenotyping, in situ hybridization and polymerase chain reaction, 449

bcl-2 analysis of follicular lymphoma by, 511

comparison of cytogenetic analysis, Southern analysis, and polymerase chain reaction for detection of t(14;18) in follicular lymphoma, 472

comparison of PCR with Southern hybridization for routine detection of immunoglobulin heavy chain gene rearrangements, 171

DNA typing of human MN and Ss blood group antigens in amniotic fluid and following massive transfusion, 353

identification of methicillin-resistant staphylococci by multiplex polymerase chain reaction assay, 501

lymphoma of mucosa-associated lymphoid tissue of lung, 341

polymerase chain reaction detection of tumor-derived p53 DNA in cerebrospinal fluid, 404

rapid detection of molecular changes in B-cell lymphoma by, 518 reverse transcriptase polymerase chain reaction for BCR-ABL fusion in chronic myelogenous leukemia, 501

Porphobilinogen deaminase, acute intermittent porphyria in native North American family and, 730

Porphyria, acute intermittent, in native North American family, 730 Portable monitors, laboratory and bedside evaluation of portable glucose meters, 244

Post-transfusion purpura, lack of association of fetal bleeding in neonatal alloimmune thrombocytopenia with inhibition of fibrinogen binding to platelet GPIIb/IIIa, 636

Potassium, matrix effects with College of American Pathologists Comprehensive Chemistry Survey material for, 515

Practice guidelines

clinician-pathologist relationship in management of breast disease, \$17

for ordering stool cultures in a pediatric population, 149

Practice parameters, 1

screening for dyslipidemia, 380

Precision, precision and accuracy of monocyte counting, 167 Pregnancy

biochemical discrimination of pathologic pregnancy from early, normal intrauterine gestation in symptomatic patients, 386

low maternal serum unconjugated estriol during prenatal screening as indication of placental steroid sulfatase deficiency and Xlinked ichthyosis, 400

pathologic examination of fetal specimens from dilation and evacuation procedures, 415

ploidy analysis of products of conception by image and flow cytometry with cytogenetic correlation, 409

Prenatal screening, low maternal serum unconjugated estriol during prenatal screening as indication of placental steroid sulfatase deficiency and X-linked ichthyosis, 400

Products of conception, ploidy analysis of products of conception by image and flow cytometry with cytogenetic correlation, 409

Progesterone, biochemical discrimination of pathologic pregnancy from early, normal intrauterine gestation in symptomatic patients, 386

Prognostic factors

bone marrow involvement in anaplastic large cell lymphoma, 82 CD31 quantitative immunohistochemical assays in breast carcinomas, 443 differentiation and risk assessment of gastrointestinal stromal tumors, 41

DNA and PCNA content of renal cell carcinoma and prognosis, 14 gastric carcinoma with osteoclast-like giant cells, 453

lack of prediction of survival by microvessel density in stage II nonsmall cell lung cancer, 503

p53 mutation as prognostic parameter in invasive transitional cell carcinoma of urinary bladder, 506

relationship between DNA ploidy level, nuclear size, and survival in large cell lymphoma, 568

Proliferating cell nuclear antigen

basic FGF, TGFα, C-MET and PCNA as indicators of invasiveness in primary melanomas, 508

DNA and PCNA content of renal cell carcinoma and prognosis, 14 in vivo effects of recombinant human stem cell factor treatment, 177 Proliferation

lipomatous proliferations of heart and pericardium associated with non-cardiac fatty proliferations, 507

relationship between DNA ploidy level, nuclear size, and survival in large cell lymphoma, 568

Proliferative index, epithelial-myoepithelial carcinoma of salivary glands, 432

Prostate cancer

histologic findings in post-cryosurgery prostatic biopsies, 506

nuclear DNA ploidy of, in biopsy and resection specimens, image and flow cytometric study of, 507

pathologic changes in prostate biopsies following cryoablation therapy of prostate carcinoma, 507

pathologist-urologist communication and, S21

processing prostate needle biopsy specimens for 100% detection of, 507

Prostate specific antigen, race and age specific normal ranges for, 513

matrix effects with College of American Pathologists Comprehensive Chemistry Survey material for, 515

monoclonal gammopathies of undetermined significance of undetermined significance. 515

Protein C, activated protein C resistance and inherited thrombosis, 261 Prothrombin time

comparison of lyophilized artificially depleted plasmas and lyophilized plasmas from patients receiving warfarin in correcting for coagulometer effects on International Normalized Ratios, 366

correction of variability of by International Normalized Ratio, 515 plasma calibrants for correcting coagulometer effects on International Normalized Ratios, 358

Proto-oncogenes

alteration of p53 tumor suppressor gene and activation of c-K-ras-2 proto-oncogene in endometrial adenocarcinoma, 224

tumor oncogenic expression in malignant effusions as method to enhance cytologic diagnostic sensitivity, 206

Protoplasmic astrocytoma, 705

Pseudosarcomas, Rhodococcus equi infections and, 649

Pseudothrombocytopenia

EDTA-dependent, 103

mediation of platelet satellitism by Fc[gamma]RIII (CD16) receptors, 740

Pulmonary embolism, monitoring anticoagulant effects of low molecular weight heparin preparation, 642

Pulmonary lavage specimens, microbiologic versus cytologic detection of of candidiasis in 524

Pure red cell aplasia, associated with thymic lymphoid hyperplasia and secondary erythropoietin resistance, 346

0

Quality assurance

laboratory and bedside evaluation of portable glucose meters, 244 likelihood ratios and receiver operating curves in interpretation of bronchial brush specimens, 588

Quality control

cytologic/histologic correlation for quality control in cervicovaginal cytology, 32

likelihood ratios and receiver operating curves in interpretation of bronchial brush specimens, 588

link between pathology department and laboratory medicine and medical administration and, S24

quality team approach in evaluating automated hematology analyzers with five-part differential capability, 159

Quality improvement

etiologies for non-correlating cervical cytologies and biopsies, 594

link between pathology department and laboratory medicine and medical administration and, S24

R

Race, alteration of p53 tumor suppressor gene and activation of c-Kras-2 proto-oncogene in endometrial adenocarcinoma, 224

Rate nephelometry, nephelometric and hemolytic techniques for determination of antistreptolysin O antibodies, 396

Receiver operating curves, in interpretation of bronchial brush specimens, 588

Relafen, effects on Thrombostat 4000, 519

Reliability, accuracy and reliability of frozen section diagnosis of nonpalpable breast lesions, 199

Remission, H1 automated differential counter in determination of bone marrow remission in acute leukemia, 492

Renal cancer

adult renal epithelial neoplasms, 624

consistent cytokeratin 7 expression in papillary renal cell carcinomas, 505

DNA and PCNA content of renal cell carcinoma and prognosis, 14 papillary, 624

Reproducibility, interobserver reproducibility of Nottingham modification of Bloom and Richardson histologic grading scheme for infiltrating ductal carcinoma, 195

Residency training, Graylyn Conference report, 127

Respiratory diseases. See Pneumonia

Reverse transcriptase, polymerase chain reaction for BCR-ABL fusion in chronic myelogenous leukemia, 501

Rhabdoid tumor, extrarenal, carcinosarcoma of uterus with rhabdoid tumor component, 235

Rhodococcus equi, 649

Ribosomal RNA, rapid method for detection of Aspergillus 5S ribosomal RNA using a genus-specific oligonucleotide probe, 48

RNA

rapid method for detection of Aspergillus 5S ribosomal RNA using a genus-specific oligonucleotide probe, 48

reactive versus neoplastic monocytoid B-cell proliferation, 330

Robotics, in hematology laboratory, 154

Russell's viper venom time, commercial test procedures for detection of lupus anticoagulant, 108

S

S-100, cytogenetic and immunohistochemical profile of myxoid liposarcoma. 20 Salivary gland cancer

basal cell adenocarcinoma, 603

epithelial-myoepithelial carcinoma, 432

Sarcomas

extranodal follicular dendritic cell sarcoma of the gastrointestinal tract. 90

KP1/CD68 expression in malignant neoplasms including lymphomas, sarcomas, and carcinomas, 425

stromal, endometrial, adenomyosis with sparse glands, 218

Screening

cytospin slide centrifuge Gram's stained smear for detection of bacteriuria and comparison with Filtracheck-UTI and UTIscreen, 316

for dyslipidemia, 380

effects of hemoglobin solution used as red cell substitute on typing of red cells and screening for antibodies in serum, 520

fluorochrome calcofluor white in screening of stool specimens for spores of Microsporida, 656

low maternal serum unconjugated estriol during prenatal screening as indication of placental steroid sulfatase deficiency and Xlinked ichthyosis, 400

pre-screening strategies for allergy testing, 515

rapid screening method for detection of bacteriuria, 523

for serum anti-nuclear antibodies, enzyme immunoassays compared to standard manual immunofluorescence, 525

strategy to promote rational clinical chemistry test utilization, 718 Sensitivity, tumor oncogenic expression in malignant effusions as

method to enhance cytologic diagnostic sensitivity, 206 Septicemia, automated BacT/Alert system for pediatric blood culturing, 320

Serum, chromogenic substrate assay of tissue factor pathway inhibitor activity in 391

Serum IgA endomysial antibodies, test performance evaluation using commercially available reagents, 525

Sialometaplasia, of larynx, necrotizing, 609

Single-strand conformation polymorphism analysis, acute intermittent porphyria in native North American family and, 730

Skin biopsies, immunohistologic differential diagnosis of basal cell carcinoma, squamous cell carcinoma, and trichoepithelioma in, 508

Skull base, chondroid chordoma and, 271

Sodium, matrix effects with College of American Pathologists Comprehensive Chemistry Survey material for, 515

Southern blotting

bcl-2 analysis of follicular lymphoma by, 511

comparison of cytogenetic analysis, Southern analysis, and polymerase chain reaction for detection of t(14;18) in follicular lymphoma, 472

Southern hybridization, comparison of PCR with Southern hybridization for routine detection of immunoglobulin heavy chain gene rearrangements, 171

Specimen transport, cost analysis of point-of-care testing in community hospital, 240

S-phase fraction, mechanical disaggregation of scirrhous breast adenocarcinomas for DNA flow cytometric analysis of whole cells, 8

Spinal cord, primary Ki-1 lymphoma of, 496

Squamous cell carcinomas

immunohistologic differential diagnosis of, in small cutaneous biopsy specimens, 508

of penis, overexpression of epidermal growth factor receptor in, 506 Squamous intraepithelial lesion, cytologic/histologic correlation for quality control in cervicovaginal cytology, 32 Staphylococci, methicillin-resistant

identification by multiplex polymerase hain reaction assay, 501 rapid method for detection of, 523

Statistics, 541

likelihood ratios and receiver operating curves in interpretation of bronchial brush specimens, 588

Stem cell factor, in vivo effects of recombinant human stem cell factor treatment, 177

Steroid sulfatase, low maternal serum unconjugated estriol during prenatal screening as indication of placental steroid sulfatase deficiency and X-linked ichthyosis, 400

Stool cultures, practice guidelines for ordering stool cultures in a pediatric population, 149

Stool specimens, fluorochrome calcofluor white in screening of stool specimens for spores of Microsporida, 656

Stromal tumors

differentiation and risk assessment of gastrointestinal stromal tumors, 41

endometrial sarcoma, adenomyosis with sparse glands, 218

Surgical pathology

cytopathology and, 263

glomus coccygeum in specimens, 505

Synovitis, granulomatous, *Mycobacterium marinum* and, 524 Sysmex HS-330, 154

T

t(14;18), comparison of cytogenetic analysis, Southern analysis, and polymerase chain reaction for detection of t(14;18) in follicular lymphoma, 472

T cell(s), of [gamma]/δ T cells in human ehrlichiosis, 761

T-cell-rich B-cell lymphoma, 4, 65

Test(s), strategy to promote rational clinical chemistry test utilization, 718

Testicular tumors, as presenting symptom of isolated polyarteritis nodosa. 215

Therapeutic drug monitoring, identification of patients for pharmacologic review by computer analysis of clinical laboratory drug concentration data, 710

Thrombocytopenia

alloimmune, neonatal, 521

fetal bleeding in, lack of association with inhibition of fibrinogen binding to platelet GPIIb/IIIa, 636

effect of heparin removal filter on platelet aggregation studies in heparin induced thrombocytopenia, 745

Thrombocytopenic purpura, thrombotic

improvement of platelet counts in patients being treated for, normalization of MPV and PDW following, 516

secondary to pancreatitis, 519

Thromboplastin(s), comparison of lyophilized artificially depleted plasmas and lyophilized plasmas from patients receiving warfarin in correcting for coagulometer effects on International Normalized Ratios, 366

Thromboplastin reagents, heparin-induced increase in International Normalized Ratio and, 735

Thrombosis, activated protein C resistance and inherited thrombosis, 261

Thrombostat 4000, effects of aspirin, Relafen, and Persantin in, 519 Thymus, pure red cell aplasia associated with thymic lymphoid hyperplasia and secondary erythropoietin resistance, 346

Thyroid

carcinoma of, papillary, oxyphilic, 280

fine-needle aspiration of, ThinPrep versus direct smear cytologic preparations in analysis of, 510

Tissue factor, chromogenic substrate assay of tissue factor pathway inhibitor activity in plasma and serum, 391

Tissue section, DNA cytometry of, comparison of imprint smear and tissue section for, 503

Total hip replacement, monitoring anticoagulant effects of low molecular weight heparin preparation, 642

Total knee replacement, monitoring anticoagulant effects of low molecular weight heparin preparation, 642

Transforming growth factor-α, basic FGF, TGFα, C-MET and PCNA as indicators of invasiveness in primary melanomas, 508

Transforming growth factor-β, deposition in marrow in myelofibrosis and intercellular localization and secretion by leukemic cells, 574

Transfusion reactions

hemolytic, suspected, measuring haptoglobins in evaluation of, 520 non-hemolytic, effects of platelet storage age on incidence of, 521

Translocations

comparison of cytogenetic analysis, Southern analysis, and polymerase chain reaction for detection of t(14;18) in follicular lymphoma, 472

cytogenetic and immunohistochemical profile of myxoid liposarcoma, 20

Trichoepitheliomas, immunohistologic differential diagnosis of, in small cutaneous biopsy specimens, 508

Trichrome, modified, fluorochrome calcofluor white in screening of stool specimens for spores of Microsporida, 656

Tricyclic antidepressants, effectiveness of Triage Panel for Drugs of Abuse Plus Tricyclic Antidepressants for patients receiving therapeutic doses of, 514

Triple test, low maternal serum unconjugated estriol during prenatal screening as indication of placental steroid sulfatase deficiency and X-linked ichthyosis, 400

Triton tumors, benign, 460

Tubal metaplasia, 618

Tubo-endometrioid metaplasia, 618

Tumor(s). See also specific sites and types

adenomyosis with sparse glands, 218

central nervous system, recently recognized, cytological patterns of, 510

extranodal follicular dendritic cell sarcoma of the gastrointestinal tract, $90\,$

immunohistologic detection of p53 expression in benign tumors and non-neoplastic tissues, 509

malignant, KP1/CD68 expression in malignant neoplasms including lymphomas, sarcomas, and carcinomas, 425

of peripheral nerve sheath, 696

testicular, as presenting symptom of isolated polyarteritis nodosa, 215

Tumor-associated glycoprotein-72, expression in gastrointestinal carcinoids, implications for immunodiagnosis and immunotherapy, 504

Tumor cells, tumor type as determinant of susceptibility to apoptosis, 300

Tumor markers, immunohistochemical identification of tumor markers in metastatic adenocarcinoma, 500

Tumor necrosis factor-α, expression at mRNA and protein level in PHA stimulated T-cells from hematopoietic progenitor cells, reduction by ultraviolet-B light, 522

Turnaround time

cost analysis of point-of-care testing in community hospital, 240

use and abuse of requests for short turnaround time hematology profiles in academic medical center, 526

TWAR-strain, evaluation of culture conditions used for isolation of Chlamydia pneumoniae, 141

U

Ulcers, duodenal, effect of Helicobacter pylori on antral enterochromaffin cells and, 505

Ultrastructure

carcinosarcoma of uterus with rhabdoid tumor component, 235 extranodal follicular dendritic cell sarcoma of the gastrointestinal tract. 90

Univariate analysis, histopathologic changes in colonic biopsy in acute graft-versus-host disease, 690

Urinary tract infection, cytospin slide centrifuge Gram's stained smear for detection of bacteriuria and comparison with Filtracheck-UTI and UTIscreen, 316

Urine, somatic cells in, rapid screening method for detection of, 523

Urologists, communication with, S21

Uterine cervix

cancer of, cytologic/histologic correlation for quality control in cervicovaginal cytology, 32

cytologic/histologic correlation for quality control in cervicovaginal cytology, 32

etiologies for non-correlating cervical cytologies and biopsies, 594 florid deep glands of, 614

glandular lesions of, validity of criteria used to differentiate reactive changes, glandular dysplasia, and adenocarcinoma, 509

tubal and tubo-endometrioid metaplasia of, 618

Uterus

adenomyosis with sparse glands, 218

carcinosarcoma of uterus with rhabdoid tumor component, 235
Utilization, strategy to promote rational clinical chemistry test utilization, 718

UTIscreen, cytospin slide centrifuge Gram's stained smear for detection of bacteriuria and comparison with Filtracheck-UTI and UTIscreen, 316

V

Vaginal smears, atrophic, with suspected squamous cell abnormalities, usefulness and physician compliance with recommendation for estrogen proliferation test, 509

Vernix caseosa peritonitis, 681

Villin, utility in differential diagnosis of carcinoma in liver, 505

Vimentin, carcinosarcoma of uterus with rhabdoid tumor component,

W

Warfarin

comparison of lyophilized artificially depleted plasmas and lyophilized plasmas from patients receiving warfarin in correcting for coagulometer effects on International Normalized Ratios, 366

plasma calibrants for correcting coagulometer effects on International Normalized Ratios, 358

Western blot, correlation between HIV type 1 and 2 EIA screen's signal to cutoff ratio and results of commercially available Western blot confirmatory assays, 523

- White blood cell differential, precision and accuracy of monocyte counting, 167
- Wild-type strains, evaluation of culture conditions used for isolation of Chlamydia pneumoniae, 141
- Wilms tumor, bcl-2 immunoreactivity in, 505

Book Reviews

- Atlas of Gastrointestinal Pathology, 664
- Atlas of Tumor Pathology: Tumors of the Bone Marrow, 253
- Atlas of Tumor Pathology: Tumors of the Central Nervous System, 253
- Biopsy Interpretation of the Lung, 531
- Clinical Laboratory Medicine, 112
- The Diagnosis and Detection of Breast Disease, 254
- Diagnostic Transmission Electron Microscopy of Tumors with Clinicopathological, Immunohistochemical and Cytogenetic Correlations, 372
- Flow Cytometry and Clinical Applications, 663
- Pathology in Gynecology and Obstetrics, 112
- Pathology of Adrenal and Extra-adrenal Paraganglia, 531
- Pathology of the Lung, 769
- Practical Electron Microscopy: A Beginner's Illustrated Guide, 372
- Pulmonary Pathology, 373
- Scientific Basis of Transfusion Medicine: Implications for Clinical Practice, 531
- In Situ Hybridization: Protocols and Applications, 663

- Solid Organ Transplantation pathology. Major Problems in Pathology 769
- Correspondence and Corrections, 114, 255, 374, 533, 665, 771
- Editorials

 Activated Protein C Resistance and Inherited Thrombosis. 261
- Basic Science Reviews for Clinical Pathologists, 379
- Beyond Sensitivity and Specificity, 541
- Clinical Laboratory Informatics, The Promised Land, 677
- Cytopathology and Surgical Pathology, 263
- The Future of Clinical Pathology, 121
- Here We Go Again: A New Classification of Malignant Lymphomas, 539
- Histologic Grading of Breast Cancer, 123
- Monitoring Blood Glucose Meters, 125
- The Pathologist-Clinician Interaction, S1
- Pathology is More Than Just Microscopy, 3
- Pathology is whole Than Just Wileloscopy, 5
- Reactive Tumor-Like Lesions of the Peritoneum, 673
- The Role of Pathologists in Cancer Patient Staging, 679 A Surgical Pathologist Views Practice Parameters, 1
- T-cell-rich B-cell Lymphoma, 4

In Memoriam

- Rippey, John H., 529
- Williams, George, 767
- News and Notices, 116, 259, 377, 536, 669, 774
- 29th Annual Meeting of the Academy of Clinical Laboratory Physicians and Scientists, 252

INDEX OF AUTHORS

Abarbanel, Joseph, 215 Adegboyega, Patrick A., 374 Adelman, Harold M., 98 Adevaniu Moses 479 Adomat, Sheryle A., 472 Agress, Richard L., 681 Aisoni, Maria Luisa, 265 Alexander, H. D., 255 Anastasi, John, 479 Andrac, Lucile, 443 Armstrong, John G., 730 Arnold, Andrew, 756 Arva, Subhash C., 256 Auslaender, Leah, 215 Austin, John, 432 Ayala, Alberto G., 27, 534

Baddoura, Fady K., 65 Baelde, Henk A., 492 Banks, Helen, 594 Banks, Peter M., 3, 485, 543 Banner, Barbara F., 419 Barastegui, C., 665 Barranco, Peggy, 154 Barton, Ann L., 419 Bassi, Paola, 425, 561 Batsakis, John G., 432 Bayer, Peter Michael, 167 Beadling, Wendy V., 636 Beckner, Marie E., 280 Bedrossian, Carlos W. M., 263 Begleiter, Asher, 574 Ben-Ezra, Jonathan, 533 Berean, Kenneth W., 195 Bergeret, Denise, 443 Bergeron, David L., 656 Berrettini, Mauro, 391 Bianchi, Simonetta, 199 Biava, Claude G., 271 Bizzaro, Nicola, 103, 740 Bombí, Josep A., 690 Bonkovsky, Herbert L., 419 Bork, Linda, 533 Bottles, Kent, 588 Boulat, Joelle, 443 Boyd, James C., 195 Bozzola, Loredana, 453 Brandalise, Maurizia, 103 Brigden, Malcolm L., 376 Bromberg, Judith, 14 Brousset, Pierre, 82 Brown, Ron D., 8 Burke, M. Desmond, 121 Bylund, David J., 666

Cable, Edward E., 419 Cadrain, Gisele, 149 Caldwell, Charles W., 761 Campo, Salvatore, 136 Canal, Barbara, 425 Canick, Jacob A., 400 Cannon, George H., 27 Caple, Jocelyn F., 745 Carbone, Antonino, 425, 561 Cardesa, Antonio, 690 Cardona, Gaetano, 199 Carreras, Enrie, 690 Carroll, James, 358, 366 Cataliotti, Luigi, 199 Catrou, Paul G., 677 Cembrowski, George S., 771 Chan, Daniel W., 244 Chan, J. K. C., 76, 346 Chan, John K. C., 543 Chan, L. C., 76 Chan, S. K., 35 Chan, T. K., 76 Chan, Wing C., 65 Charache, Samuel, 154 Charpin, Colette, 443 Chau, K. F., 346 Chen, Jenn C., 409 Chernof, Bruce, S24 Chiesa, Claudio, 396 Cho, Kyung Ja, 432 Chow, Louis T. C., 35 Chow, W. H., 35 Chu, Y. C., 346 Church, Ann, 353 Church, Deirdre L., 149 Ciatto, Stefano, 199 Cibas, Edmund S., 32 Cibull, Michael L., 594 Cilia, Anna Maria, 561 Clarke, Keith, 358, 366 Clausen, Carla R., 656 Cleary, Michael L., 189, 543 Clement, Philip B., 218, 618, 673 Cochaux, Pascale, 449 Cody, Hiram S., III, S17 Cohen, Michael B., 588 Coldman, Andrew J., 472 College of American Pathologists, Cancer Committee, 679 Comerford, Joanne, 171 Conjoint Task Force on Clinical Pathology Residency Training Writing Committee, 127 Cote Richard I S21 Coulson, Walter F., 533 Coupland, Robert W., 472 Crum, Christopher P., 32 Cserni, Gábor, 114

Dalal, Bakul I., 574 Dargent, Jean-Louis, 568 Davey, Diane D., 594 Davidson, Bruce L., 642 Davis, Richard L., 271 Dawson, Andrea E., 438 Dava, Dean, 614, 685 Debiec-Rychter, Maria, 20 Degevter, Marianne, 449 Dehner, Louis P., 539, 773 Delmonico, Francis, 748 Delsol, Georges, 82, 543 Del Turco, Marco Rosselli, 199 Den Ottolander, Gerard J., 492 Deol, Inderjit, 338 De Peralta-Venturina, Mariza N., 534 DeVictor, Benedicte, 443 De Wolf-Peeters, Christine, 543 Di Gregorio, Carmela, 265 Dixon, Richard, 649 Dolezal, Milana V., 189 Donisi, Pietro Maria, 453 Druy, Edward, 642 D'Souza, Terence J., 685

Eaton, John W., 466 Edwards, Audrey M., 409 Egen, Ned B., 57 Eisenstadt, Janice, 316 El-Didi, Monir, 206 Elenitoba-Johnson, Kojo, 341 El-Habashi, Ahmed, 206 Ellis, Ian O., 123 Ellison, Douglas, J., 666 El-Morsi, Bahiga, 206 El-Naggar, Adel K., 432 Elston, Christopher W., 123 Emory, Theresa, S., 696 Enomoto, Takayuki, 224 Eshleman, James R., 353 Esparraguera, Ileana M., 642 Esquivel, Martin, S24 Estes, Melinda L., 705 Everett, E. Dale, 761

Falini, Brunangelo, 543 Fante, Rossella, 265 Farhi, Diane C., 4, 185 Farias-Eisner, Robin, S13 Faust, Audrey M., 159 Fechner, Robert E., 6 Fedeli, Franco, 453 Ferguson, David J., 376 Ferry, Judith A., 748 Fischer, Michael, 167 Fischer, Robert, 330 Fitzsimmons, Karen M., 588 Fletcher, Christopher D. M., 90 Flint, Andrew, 14 Fortune, William P., 642 Foulis, Philip R., 98 Frable, William F., 533 Frable, William J., 231 Fraga, Maximo, 82 Frame, James N., 772

Franquemont, Douglas W., 41, 195 Freeman, Scott M., 206 Frierson, Henry F., Jr., 195 Fritsche, Thomas R., 656 Fu, Yao-Shi, S13 Fujita, Masami, 224

Gaffey, Michael J., 195, 308 Gaffney, Eoin F., 300 Gaidano, Gianluca, 561 Galindo, Lorenzo, 496 Galli, Monica, 199 Gariépy, Gilles, 114 Garrett, Carleton T., 171 Gascoyne, Randy D., 472 Gatter, Kevin C., 543 Geisinger, Kim R., 231, 295, 541 Gelb, Arnold B., 624 George, Evan, 681 Gerding, Dale N., 52 Gibas, Zenon, 20 Gingras, Bruce A., 57 Giordano, Joseph, 642 Giorgi, Daniela, 199 Glantz, Lisa, 583 Gloghini, Annunziata, 425, 561 Goldblum, John R., 218 Goldschmeding, Roel, 740 González-Lahoz, Juan M., 535 Gordon, Michael S., 177 Graham, Barney S., 649 Greenberg, Arnold H., 574 Greenway, Donald C., 718 Gresens, Christopher J., S3 Grogan, Thomas M., 543 Grossman, H. Barton, 14 Grosso, Leonard, 496 Guterman, Jeffrey J., S24

Hackett, Richard, 400 Hammond, Elizabeth H., 679 Haning, Ray V., Jr., 400 Hankin, Rebecca C., 409 Hansen, David A., 666 Hansmann, Martin-Leo, 330 Harig, Uta, 141 Harris, Alan C., 533 Harris, Nancy L., 543, 748 Harris, Nancy Lee, 756 Harrison, James H., Jr., 710 Hart, William R., 218 Hauptlorenz, Susanne, 167 Havlioglu, Necat, 496 Heckman, Maria, S24 Heffess, Clara S., 280 Heimann, Rudolf, 449 Hell, Karen, 330 Henson, Donald E., 679 Herman, Jay H., 636

Hernandez, Antonio M., 338 Hilborne, Lee, S24 Hilborne, Lee H., S1 Hillyer, Christopher D., 374 Hindmarsh, J. Thomas, 718 Hirose, Takanori, 696 Hirsh, Jack, 358, 366 Hoda, Syed, A., S17 Hoffman, Ronald, 177 Hollander, Priscilla, 771 Holloway, D. Scott, 642 Hollowood, Kevin, 90 Honsinger, Charles, 404 Horschowski, Nicole, 443 Horsman, Douglas E., 472 Hostetter, Alden L., 380 Howard, Caroline, 244 Hübl, Wolfgang, 167 Huguet-Rigal, Françoise, 82 Huibregtsen, Loes, 492 Hunter, Susan V., 409

lezzoni, Julia C., 308 Inoue, Masaki, 224 Isaacson, Peter G., 543 Israels, Lyonel G., 574 Israels, Sara J., 574

Jacobs, Helena M., 642 Jadavji, T., 149 Jaffe, Elaine S., 543 Jamani, Azim, 730 Jatlow, Peter, 125 Jeffrey, P. Brian, 271 Jenkins R. B., 696 Jilch, Ruth, 167 Joh, Kensuke, 288 John, Karla, 177 Johnson, Mary Z., 400 Johnston, James B., 574 Jones, Russell G., 159 Joste, Nancy E., 32

Kabani, Amin, 149 Kamel, Onsi W., 189 Kant, Jeffrey A., 353 Karcher, Donald S., 171 Katz, Ruth L., 568 Katzmann, Jerry A., 255 Keashen-Schnell, Maryann, 636 Keefner, Robert, 240 Keren, David F., 400 Kershisnik, Matthew M., 27 Kessler, Craig, M., 642 Khorsand, Jila, 341 King, Thomas C., 341 Kingma, Douglas W., 348 Kisiel, Walter, 391 Kiss, Robert, 568 Klatt, Edward C., 415 Knapp, Darlene, 185 Knittel, Douglas R., 772 Knowles, Daniel M., 543

Kokseng, Chester U., 98 Kolatkar, Nikheel S., 771 Konichezky, Myriam, 215 Kottke-Marchant, Kandice, 745 Kurtin, Paul J., 485 Kwong, Y. L., 76

Lacbawan, Felicitas L., 725 Laguna, Fernando, 535 Lanza, Giovanni, 265 Larsimont, Denis, 449 Laskin, William B., 772 Lauder, Ian, 330 Lavabre-Bertrand, Thierry, 375 Lavaut, Marie Noelle, 443 Lee, Amanda, 348 Lee, Joseph C. K., 35 Lee, Kenneth R., 235 LeFeyer, David, 725 Lehman, Christopher M., 171 Lenel, Julia C., 588 Lespagnard, Laurence, 449 Lewin, Klaus J., S9 Leyser, Selig, 681 Li, C. S., 346 Li, Chin-Yang, 255 Liang, R. H. S., 76 Liberman, Laura, 598 Liebert, Monica, 14 Limon, Janusz, 20 Lin, C. K., 76 Linden, Michael D., 8 Litzky, Leslie A., 48 Livolsi, Virginia A., 1 Llombart-Bosch, Antonio, 130 Lloyd, Ricardo V., 14 Loman, Kimberly, 244 Longo, Giuseppe, 136 Losi, Lorena, 265 Louis, David N., 748 Lucarelli, Graziella, 391 Luna, Mario A., 432 Luna, Vicki A., 656 Lyon, Andrew W., 718 Lyon, Robert, 660

Maass, Matthias, 141 Mackowiak, Patricia G., 8 Maestri, Iva, 265 Malaspina, Morena, 391 Mancuso, Giovanna, 396 Manepalli, Anantha, 496 Manley, Michael, 57 Marcilla, Antonio, 130 Markey, G. M., 255 Marrogi, Aizen J., 206 Masih, Aneal S., 65 Mason, David Y., 543 Matthews, Randi A., 159 Mazze, Roger S., 771 McCabe, John B., 725 McCain, Jeannette, 98 McDonald, Gregory, 761

McMillan, Eileen, 574 McPhaul, Laron W., 588 Medeiros, L. Jeffrey, 341, 348, 583 Menegon, Alessandra, 453 Michael, Claire, 409 Michaud, Ginette, 574 Miettinen, Markku, 20 Miller, Cynthia, 244 Miller, Jonathan L., 636 Miller, Michael L., 745 Minuk, Terry, 685 Mitchell, Andrew, 460 Mitchell, Dan, 65 Molberg, Kyle, 665 Monteagudo, Carlos, 130 Montone, Kathleen T., 48 Moore, Anne, S17 Mormeneo, Salvador, 130 Morris, T. C. M., 255 Mount, Sharon L., 235 Mrőzek, Krzysztof, 20 Mukamel, Eliahu, 215 Mulford, Donna K., 438 Muller-Hermelink, Hans-Konrad, 543 Mundy, Lesley S., 52 Muñoz, Josep, 690

Nadal, Alfons, 690
Nalbandian, Robert M., 57
Nappi, Oscar, 453
Nasim, Suhail, 171
Nazar-Stewart, Valle, 386
Nedoszytko, Bogusław, 20
Neiman, Richard S., 177
Nenci, Giuseppe, G., 391
Newin, David N., S9
Nichols, James H., 244
Niezabitowski, Aleksander, 20
Nomura, Taisei, 224
Nordin, David D., 681
Nosanchuk, Jerome S., 240
Nyberg, Dorothy, 244

Oertel, James E., 280 Oh, Sandra, 574 Ohkawa, Kiyoshi, 288 Oliva, Esther, 618 Onofrio, Burton M., 696 Orazi, Attilio, 177 Ordonez, Nelson G., 27 Ordonez, Nelson G., 432, 534 Ostertag, Helmut, 460

Paauwe, Judy L. E., 492 Pacifico, Lucia, 396 Page, David L., 123 Palli, Domenico, 199 Parise, Pasquale, 391 Pascali, Enzo, 665 Pasquino, Anna Maria, 396 Pasteels, Jean-Lambert, 568 Payen, Catherine, 82 Pedroni, Monica, 265 Peterson, Lance R., 52 Peterson, Powers, S17 Pettinato, Guido, 453 Piana, Lucien, 443 Pickett, Denise A., 320 Pierre, Robert V., 338 Pileri, Stefano A., 543 Piris, Miguel A., 543 Piro, Lawrence D., 666 Pisharodi, Latha R., 603 Plank, Lukas, 330 Plorde, James J., 656 Polito, Pietro, 561 Poller, Leon, 358, 366 Pollicino, Teresa, 136 Poncelet, Phillipe, 375 Ponz de Leon, Maurizio, 265 Popper, Helmut H., 114 Prayson, Richard A., 705 Pringle, James H., 330 Properzi, Enrico, 396

Quarto, Ferdinando, 453

Raab, Stephen S., 588 Raimondo, Giovanni, 136 Rainer, Robert O., 541 Rainey, Petrie M., 9, 125 Ralfkiaer, Elisabeth, 543 Ramírez, José, 690 Randall, Janice R., 735 Ravagnan, Giampietro, 396 Reed, Dian, 98 Rhodes, C. Harker, 404 Rintels, Peter, 583 Rippin, Kathleen Pratt, 316 Rizzo, Aurora, 425 Ro, Jae Y., 27, 534 Robbins, Bruce A., 666 Robert, Alain, 82 Rodgers, George M., 261 Rodinò, Giuseppina, 136 Roland, William E., 761 Roncucci, Luca, 265 Roscoe, Diane L., 257 Rosen, Paul Peter, 598 Rosenthal, Nancy S., 185 Ross, Jeffrey S., 379 Roszkiewicz, Andrzej, 20 Rothe, Martin, 154 Rozman, Ciril, 690 Rubie, Hervé, 82 Rupolo, Giancarlo, 425 Russo, Francesco, 136 Rys, Janusz, 20

Saglio, Giuseppe, 561 Salmon, Isabelle, 568 Sammons, David W., 57 Samoszuk, Michael, 583 Sanford, Barbara H., 98 Sarago, Caliope, 171 Sattich, Michelle, 594 Sav. Avdin, 460 Saven, Alan, 666 Savion, Michael, 215 Schaffner, William, 649 Schaldenbrand, John D., 400 Scheithauer, Bernd W., 460, 696 Schiller, Gary J., S3 Schjetlein, Rune, 108 Schlaifer, Daniel, 82 Schlede, Carolyn M., 98 Schreiber, William E., 730 Scott, Margie, A., 649 Sentandreu, Rafael, 130 Sepehrnia, A., 460 Shakin-Eshleman, Susan H., 353 Shanholtzer, Carol J., 52 Shapter, Anne, S13 Sheils, Lucy A., 438 Shroyer, Kenneth R., 224 Sibley, Richard K., 189 Siebert, James D., 485 Silva, Elvio G., 27 Simmons, Vickie L., 735 Simonowitz, David A., 681 Skelly, Milton E., 348 Skinner, Eila C., S21 Slagel, Daniel D., 588 Sledge, George, Jr., 177 Solomon, Harvey M., 735 Sorenson, George D., 404 Sotelo-Avila, Cirilo, 496

Spinella, Santina, 136 Spires, Susan E., 594 Spiro, Ira. 748 Spitalnik, Steven L., 353 Squadrito, Giovanni, 136 Stamp, Gordon, 90 Stastny, Janet F., 533 Staunton, Marie J., 300 Stein, Harald, 543 Sterling, Charles R., 57 Stewart, Brian K., 386, 656 Stinson, William C., 316 Stracca-Pansa, Vincenzo, 453 Stuart, Marie J., 636 Stuckey, John H., 485 Sulak, Laura E., 533 Sun, Nora C. J., 65 Sun, Tsieh, 535 Sunheimer, Robert, 725 Swan, Forrest, Jr., 568

Taatjes, Douglas J., 235
Takata, Minoru, 324
Tang, Liping, 466
Taylor, Charles D., 98
Tefferi, Ayalew, 255
Tham, Kyi T., 649
Thomas, Eva E., 257
Thomas, Patricia A., 588
Tirelli, Umberto, 561
Tlustos, Lukas, 167
Toivola, Bert, 386
Topalovski, Margarita, 409

Torres, Frank X., 8 Tressera, F., 665 Trevenen, C., 149 Triplett, Douglas A., 358, 366 Tritz, Denise M., 594 Trus, Ted, 685 Tsui, Wilson M. S., 35

Vaccher, Emanuela, 561
Van Der Burgh, J. Fred, 492
Van de Rijn, Mathijs, 189
Vardiman, James W., 479
Variakojis, Daina, 479
Velu, Thierry
Verrall, Rosemary, 649
Vezzosi, Vania, 199
Villari, Daniela, 136
Von Dem Borne, Albert E. G. Kr., 740
Vuitch, Frank, 665

Wakely, Paul E., Jr., 231 Wallach, Paul M., 98 Warnke, Roger A., 189, 543 Washington, John A., 316 Weeks, Julia A., 594 Weinstein, Wilfred M., S9 Weisenberg, Elliot, 479 Weisenburger, Dennis D., 65 Weiss, Lawrence M., 308, 624 Weiss, Susan L., 771 Weissmann, David J., 748 Welch, David F., 320 Wenig, Bruce M., 609 Wick, Mark R., 773 Wilbur, David C., 195 Willard, Keith E., 52 Wingfield, Sandra, 154 Wisløff, Finn, 108 Wittchow, Richard J., 588 Witzig, Thomas E., 255 Wöckel W., 667 Wolber, Robert A., 195 Wong, K. F., 76, 346 Woo, Jannie, 725 Wood, Michael, 696 Woods, Gail, 660

Xie, Lei, 57

Yachia, Daniel, 215 Yamada, Kyosuke, 288 Yang, Woo-Ick, 756 Yemen, Brian, 685 Yesus, Yohannes, W., 761 Young, Robert H., 614, 618 Youngson, Bruce J., 598

Zaleski, M. Sue, 588
Zampi, Giancarlo, 199
Zanette, Ivana, 425
Zarbo, Richard J., 8
Zimmer, Harold L.,681
Zouvani, Ioanna, 90
Zukerberg, Lawrence R., 756